

Title (en)

PIPE CONNECTOR WITH INTEGRATED SENSOR FOR MEASURING UREA SOLUTIONS

Title (de)

LEITUNGSVERBINDER MIT INTEGRIERTEM SENSOR ZUR MESSUNG VON HARNSTOFF-LÖSUNGEN

Title (fr)

RACCORD DE CONDUITE À CAPTEUR INTÉGRÉ PERMETTANT DE MESURER DES SOLUTIONS D'URÉE

Publication

EP 3495706 B1 20200722 (DE)

Application

EP 18208326 A 20181126

Priority

DE 102017127936 A 20171127

Abstract (en)

[origin: CN109838634A] The invention relates to a line connector, which comprises a connection piece (1). The connection piece comprises a flow through channel (2), which extends in the vertical direction in the connectionpiece (1) and is used for a fluid, in particular, a urea solution. Two ends of the connection piece are both provided with a connection section (3,4). The connection section is used to connect a connectable flexible medium line (6), a pipeline pipe, or equipment with a joint. The flow through channel (2) is provided with an electric heating device (7). Between the connection sections (3,4) of twoends of the flow through channel (2), a wall section (8) is formed in the wall of the flow through channel (2) enclosing the connection piece (1), and the signal of an optical sensor can penetrate thewall section (8). In the connection piece (1), an accommodation shell (9) that can enclose the permeable wall section (8) in the circumferential direction is formed. The accommodation shell (9) is provided with an accommodation opening (11), which is opposite to the permeable wall section (8), and an optical sensor unit (12) can be arranged in the accommodation shell (9).

IPC 8 full level

F16L 53/38 (2018.01); **F16L 25/01** (2006.01); **F16L 41/00** (2006.01)

CPC (source: EP)

F16L 25/01 (2013.01); **F16L 41/008** (2013.01); **F16L 53/38** (2017.12)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

EP 3495706 A1 20190612; **EP 3495706 B1 20200722**; CN 109838634 A 20190604; CN 109838634 B 20210810;
DE 102017127936 A1 20190529

DOCDB simple family (application)

EP 18208326 A 20181126; CN 201811424385 A 20181127; DE 102017127936 A 20171127